

BPOZ EDS  
2/04 10/05

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1991-9029	19910717
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Venkat, Jyothsan	
LEGAL REPRESENTATIVE:	Oliff & Berridge	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	494	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A cosmetic or dermatological composition with a depigmenting action comprises derivatives of 2,5-dihydroxyphenylcarboxylic acids, their homologs, and their salts, with the derivatives having the following structural formula: ##STR1## wherein: R.sub.1 represents OR.sub.5, OH, or ##STR2## R.sub.5 is a linear or branched C.sub.1 -C.sub.20 alkyl radical, a linear or branched C.sub.2 -C.sub.20 alkenyl radical, or a C.sub.1 -C.sub.20 alkyl radical substituted by one or more hydroxy or alkoxy groups;

r' and r'', identical or different, represent a hydrogen atom, a C.sub.1 -C.sub.20 alkyl radical, a C.sub.2 -C.sub.6 hydroxyalkyl radical, or a C.sub.3 -C.sub.6 polyhydroxyalkyl, or r' and r'' taken together, with the nitrogen atom, form a heterocycle;

the number of carbon atoms in the --(CH.sub.2).sub.n --COR.sub.1 chain is less than or equal to 21;

R.sub.2 and R.sub.3, identical or different, represent a hydrogen atom, a linear or branched C.sub.1 -C.sub.4 alkyl radical, or a C.sub.1 -C.sub.4 alkoxy; R.sub.4 represents a hydrogen atom or a linear or branched C.sub.1 -C.sub.4 alkyl radical; and

n is an integer from 0 to 20, provided that, when R.sub.2 and R.sub.3 represent a hydrogen atom, n is greater than or equal to 2.

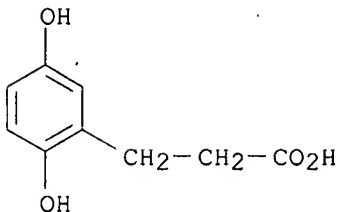
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 10538-47-3P, 2,5-Dihydroxyphenyl propionic acid  
 20452-54-4P 54637-01-3P 70318-72-8P  
 146803-72-7P

(preparation of, as skin-depigmentation agent, for cosmetics)

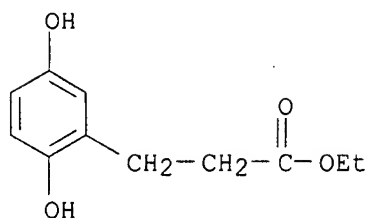
RN 10538-47-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy- (9CI) (CA INDEX NAME)

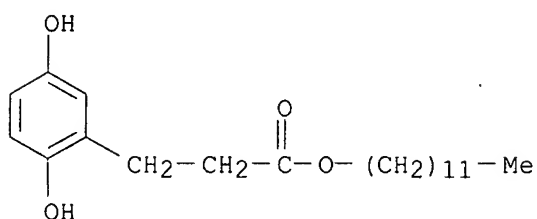


RN 20452-54-4 USPATFULL

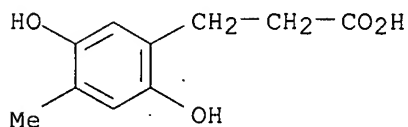
CN Benzenepropanoic acid, 2,5-dihydroxy-, ethyl ester (9CI) (CA INDEX NAME)



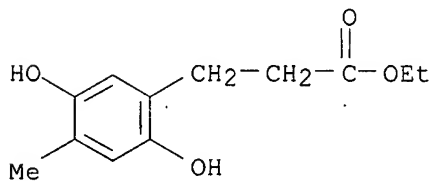
RN 54637-01-3 USPATFULL  
 CN Benzenepropanoic acid, 2,5-dihydroxy-, dodecyl ester (9CI) (CA INDEX NAME)



RN 70318-72-8 USPATFULL  
 CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl- (9CI) (CA INDEX NAME)



RN 146803-72-7 USPATFULL  
 CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 2 OF 4 USPATFULL on STN  
 ACCESSION NUMBER: 96:118389 USPATFULL  
 TITLE: Utilization of derivatives of 2,5 dihydroxyphenyl-carboxylic acid amides and their salts in preparation of a cosmetic or dermatological composition with a depigmenting action  
 INVENTOR(S): Junino, Alex, Livry Gargan, France  
 LaGrange, Alain, Chatou, France  
 N'Guyen, Quang L., Antony, France  
 Bourboulon, Marie-Alix, Paris, France  
 PATENT ASSIGNEE(S): L'Oreal, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5587173		19961224
APPLICATION INFO.:	US 1995-465105		19950605 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-913950, filed on 17 Jul 1992, now patented, Pat. No. US 5449518		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1991-9029	19910717
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Venkat, Jyothsna	
LEGAL REPRESENTATIVE:	Oliff & Berridge	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	483	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A cosmetic or dermatological composition with a depigmenting action comprises derivatives of 2,5-dihydroxyphenylcarboxylic acids, their homologs, and their salts, with the derivatives having the following structural formula: ##STR1## wherein: R.sub.1 represents OR.sub.5, OH, or ##STR2## R.sub.5 is a linear or branched C.sub.1 -C.sub.20 alkyl radical, a linear or branched C.sub.2 -C.sub.20 alkenyl radical, or a C.sub.1 -C.sub.20 alkyl radical substituted by one or more hydroxy or alkoxy groups;

r' and r'', identical or different, represent a hydrogen atom, a C.sub.1 -C.sub.20 alkyl radical, a C.sub.2 -C.sub.6 hydroxyalkyl radical, or a C.sub.3 -C.sub.6 polyhydroxyalkyl, or r' and r'' taken together, with the nitrogen atom, form a heterocycle;

the number of carbon atoms in the --(CH.sub.2).sub.n --COR.sub.1 chain is less than or equal to 21;

R.sub.2 and R.sub.3, identical or different, represent a hydrogen atom, a linear or branched C.sub.1 -C.sub.4 alkyl radical, or a C.sub.1 -C.sub.4 alkoxy; R.sub.4 represents a hydrogen atom or a linear or branched C.sub.1 -C.sub.4 alkyl radical; and

n is an integer from 0 to 20, provided that, when R.sub.2 and R.sub.3 represent a hydrogen atom, n is greater than or equal to 2.

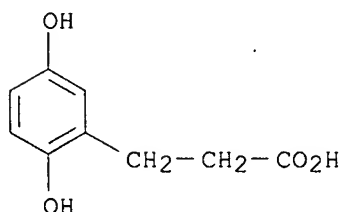
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 10538-47-3P, 2,5-Dihydroxyphenyl propionic acid  
20452-54-4P 54637-01-3P 70318-72-8P  
146803-72-7P

(preparation of, as skin-depigmentation agent, for cosmetics)

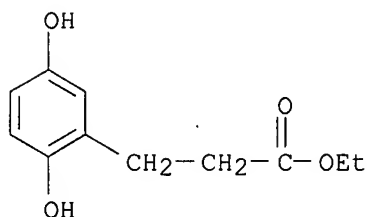
RN 10538-47-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy- (9CI) (CA INDEX NAME)



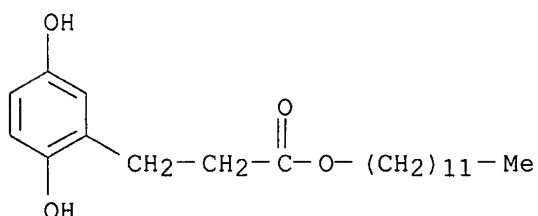
RN 20452-54-4 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-, ethyl ester (9CI) (CA INDEX NAME)



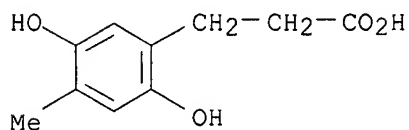
RN 54637-01-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-, dodecyl ester (9CI) (CA INDEX NAME)



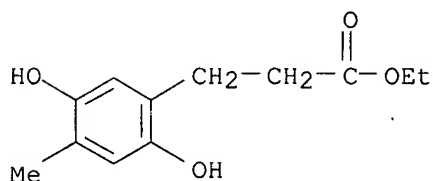
RN 70318-72-8 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl- (9CI) (CA INDEX NAME)



RN 146803-72-7 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 3 OF 4 USPATFULL on STN

ACCESSION NUMBER: 96:116116 USPATFULL

TITLE: Utilization of derivatives of 2,5-dihydroxyphenylcarboxylic acids, their homologs, and their salts in preparation of a cosmetic or dermatological composition with a depigmenting action

INVENTOR(S): Junino, Alex, Livry Gargan, France  
Lagrange, Alain, Chatou, France

PATENT ASSIGNEE(S): N'guyen, Quang L., Antony, France  
 Bourboulon, Marie-Alix, Paris, France  
 L'Oreal, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5585105		19961217
APPLICATION INFO.:	US 1995-444276		19950518 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-913950, filed on 17 Jul 1992, now patented, Pat. No. US 5449518		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1991-9029	19910717
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Venkat, Jyothsna	
LEGAL REPRESENTATIVE:	Oliff & Berridge	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
LINE COUNT:	548	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A cosmetic or dermatological composition with a depigmenting action comprises derivatives of 2,5-dihydroxyphenylcarboxylic acids, their homologs, and their salts, with the derivatives having the following structural formula: ##STR1## wherein: R.sub.1 represents OR.sub.5, OH, or ##STR2## R.sub.5 is a linear or branched C.sub.1 -C.sub.20 alkyl radical, a linear or branched C.sub.2 -C.sub.20 alkenyl radical, or a C.sub.1 -C.sub.20 alkyl radical substituted by one or more hydroxy or alkoxy groups;

r' and r'', identical or different, represent a hydrogen atom, a C.sub.1 -C.sub.20 alkyl radical, a C.sub.2 -C.sub.6 hydroxyalkyl radical, or a C.sub.3 -C.sub.6 polyhydroxyalkyl, or r' and r'' taken together, with the nitrogen atom, form a heterocycle;

the number of carbon atoms in the --(CH.sub.2).sub.n --COR.sub.1 chain is less than or equal to 21;

R.sub.2 and R.sub.3, identical or different, represent a hydrogen atom, a linear or branched C.sub.1 -C.sub.4 alkyl radical, or a C.sub.1 -C.sub.4 alkoxy;

R.sub.4 represents a hydrogen atom or a linear or branched C.sub.1 -C.sub.4 alkyl radical; and

n is an integer from 0 to 20, provided that, when R.sub.2 and R.sub.3 represent a hydrogen atom, n is greater than or equal to 2.

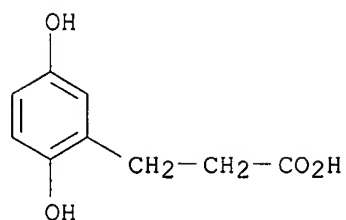
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 10538-47-3P, 2,5-Dihydroxyphenyl propionic acid  
 20452-54-4P 54637-01-3P 70318-72-8P  
 146803-72-7P

(preparation of, as skin-depigmentation agent, for cosmetics)

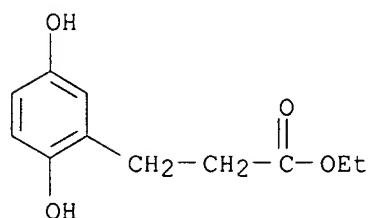
RN 10538-47-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy- (9CI) (CA INDEX NAME)



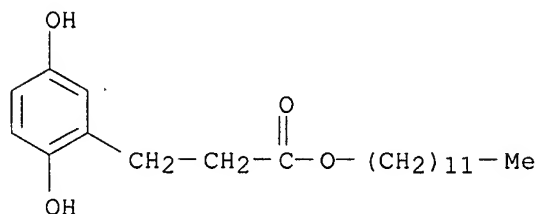
RN 20452-54-4 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-, ethyl ester (9CI) (CA INDEX NAME)



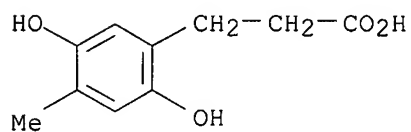
RN 54637-01-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-, dodecyl ester (9CI) (CA INDEX NAME)



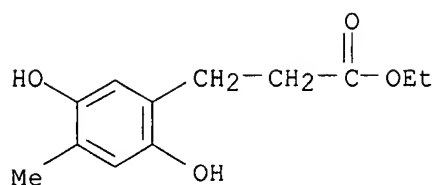
RN 70318-72-8 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl- (9CI) (CA INDEX NAME)



RN 146803-72-7 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L24 ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 95:82117 USPATFULL

TITLE: Utilization of derivatives of 2,5-dihydroxyphenyl-carboxylic acids, their homologs, and their salts in preparation of a cosmetic or dermatological composition with a depigmenting action

INVENTOR(S): Junino, Alex, Livry Gargan, France  
Lagrange, Alain, Chatou, France  
N'Guyen, Quang L., Antony, France  
Bourboulon, Marie-Alix, Paris, France

PATENT ASSIGNEE(S): L'Oreal, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5449518		19950912
APPLICATION INFO.:	US 1992-913950		19920717 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1991-9029	19910717
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Venkat, Jyothsna	
LEGAL REPRESENTATIVE:	Oliff & Berridge	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	493	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A cosmetic or dermatological composition with a depigmenting action comprises derivatives of 2,5-dihydroxyphenylcarboxylic acids, their homologs, and their salts, with the derivatives having the following structural formula: ##STR1## wherein: R.sub.1 represents OR.sub.5, or ##STR2## R.sub.5 is a hydrogen atom, a linear or branched C.sub.1 -C.sub.20 alkyl radical, a linear or branched C.sub.2 -C.sub.20 alkenyl radical, or a C.sub.1 -C.sub.20 alkyl radical substituted by one or more hydroxy or alkoxy groups; r' and r'', identical or different, represent a hydrogen atom, a C.sub.1 -C.sub.20 alkyl radical, a C.sub.2 -C.sub.6 hydroxyalkyl radical, or a C.sub.3 -C.sub.6 polyhydroxyalkyl, or r' and r'' taken together, with the nitrogen atom, form a heterocycle; the number of carbon atoms in the --(CH.sub.2).sub.n --COR.sub.1 chain is less than or equal to 21;

R.sub.2 and R.sub.3, identical or different, represent a hydrogen atom, a linear or branched C.sub.1 -C.sub.4 alkyl radical, or a C.sub.1 -C.sub.4 alkoxy; R.sub.4 represents a hydrogen atom or a linear or branched C.sub.1 -C.sub.4 alkyl radical; and n is an integer from 0 to 20, provided that, when R.sub.2 and R.sub.3 represent a hydrogen atom, n is greater than or equal to 2.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 10538-47-3P, 2,5-Dihydroxyphenyl propionic acid

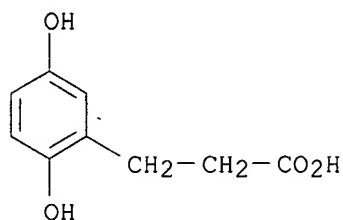
20452-54-4P 54637-01-3P 70318-72-8P

146803-72-7P

(preparation of, as skin-depigmentation agent, for cosmetics)

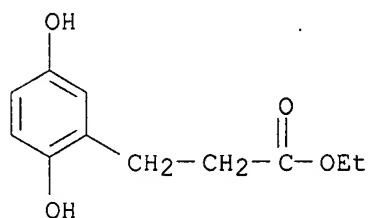
RN 10538-47-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy- (9CI) (CA INDEX NAME)



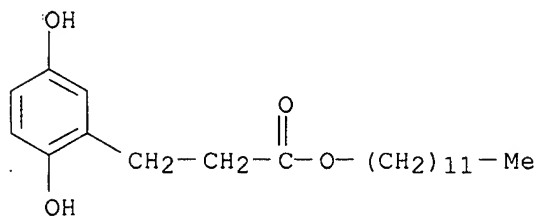
RN 20452-54-4 USPATFULL

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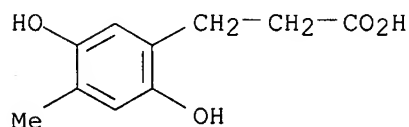
RN 54637-01-3 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-, dodecyl ester (9CI) (CA INDEX NAME)



RN 70318-72-8 USPATFULL

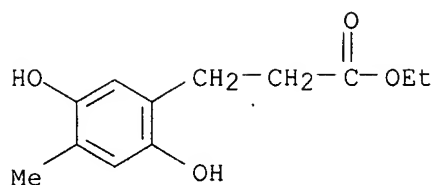
CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl- (9CI) (CA INDEX NAME)



RN 146803-72-7 USPATFULL

CN Benzenepropanoic acid, 2,5-dihydroxy-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)





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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 10:10:06 ON 14 JUN 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 13 JUN 2007 HIGHEST RN 937234-16-7

DICTIONARY FILE UPDATES: 13 JUN 2007 HIGHEST RN 937234-16-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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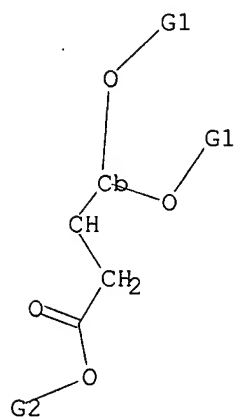
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L2 HAS NO ANSWERS

L2 STR



G1 C, H, S

G2 C, H, Cy, Hy

Structure attributes must be viewed using STN Express query preparation.

=&gt; d his

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FILE 'REGISTRY' ENTERED AT 09:57:43 ON 14 JUN 2007

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L1          SCREEN 1006
L2          STRUCTURE UPLOADED
L3          QUE L2 AND L1
L4          50 S L1
L5          4 S L2
L6          1363011 S 2/NRS AND 4-4/O
L7          50 S L2 SAM SUB=L6
L8          5803260 S 2-4/NRS AND 4-6/O
L9          1 S BENZENE/CN
L10         471243 S 1/NRS AND 4-5/O AND 46.150/RID
L11         317731 S 1/NRS AND 4/O AND 46.150/RID
L12         20 S L2 SAM SUB=L11
L13         629 S L2 FUL SUB=L11

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FILE 'ZCAPLUS' ENTERED AT 10:02:24 ON 14 JUN 2007

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L14         1500 S L13
L15         6 S COSMETIC/TI AND L14
L16         3408 S SKIN LIGHT?
L17         5 S L14 AND L16
L18         5 S L17 NOT 15
L19         3 S L17 NOT L15

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FILE 'USPATFULL, USPAT2' ENTERED AT 10:08:43 ON 14 JUN 2007

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L20         381 S L13
L21         1916 S SKIN LIGHT?
L22         18 S L20 AND L21
L23         7475 S COSMETIC?/TI
L24         4 S L23 AND L22

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FILE 'REGISTRY' ENTERED AT 10:10:06 ON 14 JUN 2007

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Executing the logoff script...

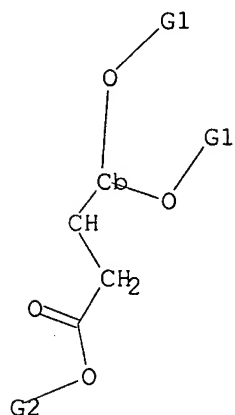
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	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.02

STN INTERNATIONAL LOGOFF AT 10:10:29 ON 14 JUN 2007



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L2 HAS NO ANSWERS  
L2 STR



G1 C, H, S  
G2 C, H, Cy, Hy

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 09:55:42 ON 14 JUN 2007)

FILE 'REGISTRY' ENTERED AT 09:57:43 ON 14 JUN 2007

L1	SCREEN 1006
L2	STRUCTURE UPLOADED
L3	QUE L2 AND L1
L4	50 S L1
L5	4 S L2
L6	1363011 S 2/NRS AND 4-4/O
L7	50 S L2 SAM SUB=L6
L8	5803260 S 2-4/NRS AND 4-6/O
L9	1 S BENZENE/CN
L10	471243 S 1/NRS AND 4-5/O AND 46.150/RID
L11	317731 S 1/NRS AND 4/O AND 46.150/RID
L12	20 S L2 SAM SUB=L11
L13	629 S L2 FUL SUB=L11

FILE 'ZCAPLUS' ENTERED AT 10:02:24 ON 14 JUN 2007

L14	1500 S L13
L15	6 S COSMETIC/TI AND L14
L16	3408 S SKIN LIGHT?
L17	5 S L14 AND L16
L18	5 S L17 NOT 15
L19	3 S L17 NOT L15

FILE 'USPATFULL, USPAT2' ENTERED AT 10:08:43 ON 14 JUN 2007

L20	381 S L13
L21	1916 S SKIN LIGHT?
L22	18 S L20 AND L21
L23	7475 S COSMETIC?/TI
L24	4 S L23 AND L22

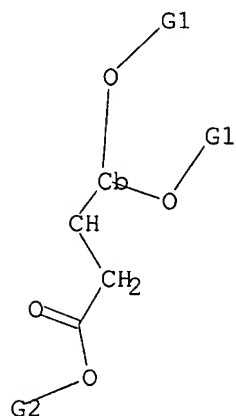


10/789,293

=> d 12

L2 HAS NO ANSWERS

L2 STR



G1 C, H, S

G2 C, H, Cy, Hy

Structure attributes must be viewed using STN Express query preparation.

=> d his

(FILE 'HOME' ENTERED AT 09:55:42 ON 14 JUN 2007)

FILE 'REGISTRY' ENTERED AT 09:57:43 ON 14 JUN 2007

L1 SCREEN 1006  
L2 STRUCTURE UPLOADED  
L3 QUE L2 AND L1  
L4 50 S L1  
L5 4 S L2  
L6 1363011 S 2/NRS AND 4-4/O  
L7 50 S L2 SAM SUB=L6  
L8 5803260 S 2-4/NRS AND 4-6/O  
L9 1 S BENZENE/CN  
L10 471243 S 1/NRS AND 4-5/O AND 46.150/RID  
L11 317731 S 1/NRS AND 4/O AND 46.150/RID  
L12 20 S L2 SAM SUB=L11  
L13 629 S L2 FUL SUB=L11

FILE 'ZCAPLUS' ENTERED AT 10:02:24 ON 14 JUN 2007

L14 1500 S L13  
L15 6 S COSMETIC/TI AND L14  
L16 3408 S SKIN LIGHT?  
L17 5 S L14 AND L16  
L18 5 S L17 NOT 15  
L19 3 S L17 NOT L15

FILE 'USPATFULL, USPAT2' ENTERED AT 10:08:43 ON 14 JUN 2007

L20 381 S L13  
L21 1916 S SKIN LIGHT?  
L22 18 S L20 AND L21  
L23 7475 S COSMETIC?/TI  
L24 4 S L23 AND L22

